

NOTES FOR B.D.

- 01. ALL BRICK WORKS AND MASONRY TO BE BUILT IN 1 : 3 CEMENT MORTAR.
- 02. ALL R.C.C. WORKS TO BE BUILT IN 20D MIXTURE UNLESS OTHERWISE DEVOTED.
- 03. ALL FOUNDATIONS TO BE CARRIED DOWN ON SOLID GROUND OR PILES IF NECESSARY.
- 04. ALL R.C.C. DETAILS AND CALCULATIONS TO BE SUBMITTED LATER.
- 05. DRAINAGE PLANS AND TYPICAL DETAILS TO BE SUBMITTED LATER.
- 06. SITE FORMATION PLAN TO BE SUBMITTED SEPERATELY.
- 07. ALL PARAPETS OR RAILINGS TO BE 1100mm HIGH MINIMUM ABOVE FINISHED FLOOR LEVEL.
- 08. CLEAR DISTANCE BETWEEN FINISHED FLOOR LEVEL TO UNDERSIDE BEAM TO BE 2300mm MINIMUM
- 09. CLEAR DISTANCE BETWEEN FINISHED FLOOR LEVEL TO CEILING TO BE 2500mm MINIMUM UNLESS OTHERWISE DEVOTED.
- 10. CLEAR DISTANCE BETWEEN FINISHED FLOOR LEVEL TO UNDERSIDE BEAM OF STAIRCASE TO BE 2000mm MINIMUM.
- 11. ALL LAVATORIES TO BE PROVIDED WITH CEMENT OR GLAZED TILE DAPO OF NOT LESS THAN 1200mm HIGH AND CEMENT PAVED OR MOSAIC TILE FLOORING.
- 12. ALL STAIRCASE OF 1050mm WIDE OR MORE TO BE PROVIDED WITH HANDRAILS ON BOTHSIDE.
- 13. ALL RISERS OF STAIRCASE TO BE NOT MORE THAN 150mm AND TREADS NOT LESS THAN 250mm.
- 14. ALL WINDOWS OPENED IN STAIRCASE TO BE PROVIDED WITH WIRED GLASS IN STEEL FRAME AND 1/10 OPENABLE OF STAIRCASE GROSS FLR. AREA.
- 15. ALL WINDOWS PROVIDED AT LIGHT WELL TO BE WIRED GLASS IN STEEL FRAME.
- 16. ALL WINDOWS PROVIDED AT GROUND FLOOR LEVEL TO BE FIXED OR OPENED INWARD WITHIN 2500mm HIGH.
- 17. FACILITIES FOR THE DISABLED SHALL COMPLY WITH BUILDING (PLANNING) REGULATION 72. & DESIGN MAJNAL FOR BARRIER FREE ACCESS 2008.
- 18. ASSESSMENT REPORT FOR 10 AIR CHANGES & FRESH AIR INTAKE INDICATION ACCORDING TO PNAP 30 TO BE PROVIDED BEFORE CONSENT APPLICATION.

NOTES FOR FIRE SERVICES (FS) INSTALLATION

- 1.0 GENERAL
- 1.1 ALL FIRE SERVICES INSTALLATION PROVIDED FOR THIS DEVELOPMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS : -
  - A) CODE OF PRACTICE (MINIMUM FIRE SERVICES INSTALLATION AND EQUIPMENT)
  - B) LATEST FSD CIRCULAR LETTERS AND STANDARD REQUIREMENTS.
  - C) LPC RULES FOR AUTOMATIC FIRE DETECTION AND ALARM INSTALATION FOR THE PROTECTION OF PROPERTY AND BS 3639- PART 1: 1986 FOR THE INSTALLATION OF AUTOMATIC FIRE DETECTION AND ALARM SYSTEMS FOR BUILDINGS
- 1.2 NO AUTOMATIC SPRINKLER SYSTEM TO BE PROVIDED FOR THE BUILDING, AS ALL BUILDING BLOCKS ARE FULLY DETACHED AND WILL HAVE LESS THAN 230M2 IN AREAS.

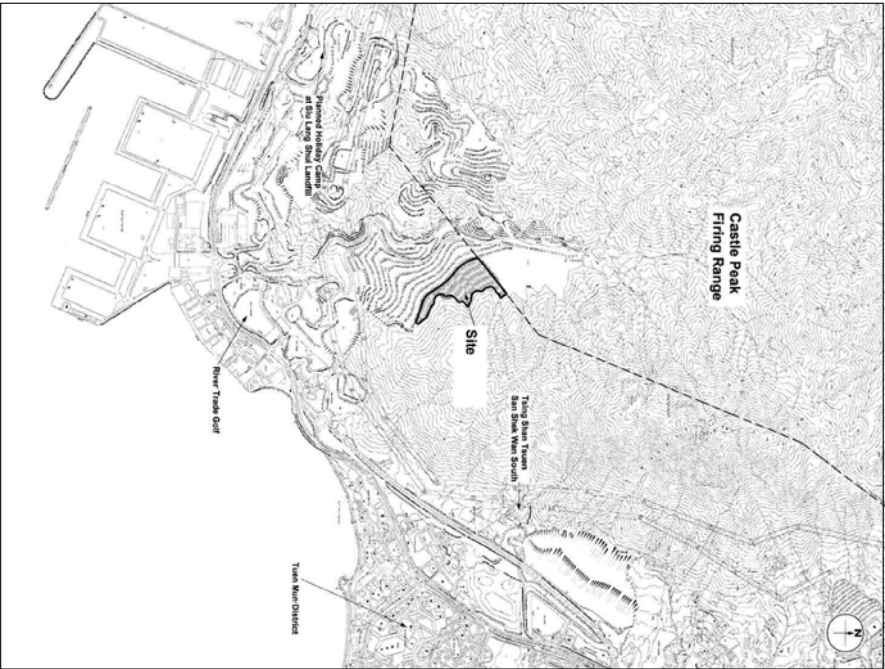
- 2.0 STREET HYDRANT (SPH) AND HOSE REEL (HR) SYSTEM
- 2.1 STREET HYDRANTS SHALL BE PROVIDED AT POSITIONS AS INDICATED ON PLANS.
- 2.2 ONE NO. OF 245,000 LITRES STREET HYDRANT WATER STORAGE TANK SHALL BE PROVIDED AS SHOWN ON PLAN AND ITS CAPACITY SHALL BE ABLE TO SUPPLY 1 HOUR WATER SUPPLY FOR TWO STREET FIRE HYDRANT OUTLET EACH DELIVERING A FLOW OF NOT LESS THAN 2,000 L/MIN.
- 2.3 TWO NOS. OF STREET FIRE HYDRANT PUMPS (ONE DUTY AND ONE STANDBY) SHALL BE PROVIDED TO MAINTAIN A MINIMUM RUNNING PRESSURE OF 170 KPA AT EACH STREET FIRE HYDRANT OUTLET WITH AN AGGREGATE FLOW OF NOT LESS THAN 4,000 L/MIN FROM ANY TWO STREET FIRE HYDRANT OUTLETS i.e. EACH OUTLET DELIVERING A FLOW OF NOT LESS THAN 2,000 L/MIN.
- 2.4 HOSE REEL SHALL BE PROVIDED AT POSITIONS AS SHOWN ON PLANS. ONE NO. OF 9,000 LITRES HOSE REEL WATER STORAGE TANK SHALL BE PROVIDED AS SHOWN ON PLAN.
- 2.5 TWO NOS. OF HOSE REEL PUMPS (ONE DUTY AND ONE STANDBY) SHALL BE PROVIDED AS INDICATED ON PLAN.
- 2.6 ALL FS TANKS SHALL HAVE NO WATER TOWN MAINS CONNECTION FOR IN FEED AND THE TANKS SHALL BE FILLED UP AND REPLENISHED BY MOBILE TANKER. ALL TANKS SHALL BE COMPLETED WITH LEVEL SENSOR TO PROVIDE LOW LEVEL ALARM AND ALARM SHALL BE CONNECTED TO MANAGEMENT OFFICE ALARM PANEL.
- 2.7 NO HYDRANT SYSTEM IS PROVIDED AS ALL BUILDING BLOCKS ARE SINGLE STOREY sitting on ground level WITHOUT STAIRCASE AND APPROACHING LOBBY.

- 3.0 AUTOMATIC DETECTION AND ALARM SYSTEM
- 3.1 A MANUAL OPERATED FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING AND SHALL BE COMPLETED WITH A BREAK GLASS UNIT AND AN ALARM BELL. MANUAL CALL POINT SHALL BE LOCATED AT EACH OF THE FOLLOWING EQUIPMENT / LOCATION -
  - A) ADJACENT TO ALL EXIT DOORS OF EACH FLOOR NEAREST TO THE STAIRCASE ;
  - B) ADJACENT TO ALL EXITS TO OPEN AIR.
- 3.2 HEAT DETECTION SYSTEM SHALL BE PROVIDED FOR ALL E&M SERVICES PLANT ROOMS EXCEPT PIPE DUCT AND ELV DUCT TO MINIMIZE FALSE ALARM.
- 3.3 A MAIN FIRE ALARM CONTROL PANEL WILL BE PROVIDED FOR THE AFA SYSTEM LOCATED AT G/F. THE MAIN FIRE ALARM PANEL WILL BE LINKED TO FIRE SERVICES COMMUNICATION CENTRE (FSSC) VIA DIRECT TELEPHONE LINE FROM THE MAIN FIRE ALARM CONTROL PANELS.

- 4.0 STRUCTURAL AND SAFETY
- 4.1 ALL LININGS FOR ACOUSTIC AND THERMAL INSULATION PURPOSES IN DUCTINGS AND CONCEALED LOCATIONS SHALL BE OF CLASS 1 OR 2 RATE OF SURFACE SPREAD OF FLAME AS PER BRITISH STANDARD 476 PART 7 OR ITS INTERNATIONAL EQUIVALENT OR BE BROUGHT UP TO THAT STANDARD BY USE OF AN APPROVED FIRE RETARDANT PRODUCT.
- 4.2 ALL LININGS FOR ACOUSTIC, THERMAL INSULATION AND DECORATIVE PURPOSES WITHIN PROTECTED MEANS OF ESCAPE SHALL BE OF CLASS 1 OR 2 RATE OF SURFACE SPREAD OF FLAME AS PER BRITISH STANDARD 476: PART 7 OR ITS INTERNATIONAL EQUIVALENT, OR BE BROUGHT UP TO THAT STANDARD BY USE OF AN APPROVED FIRE RETARDANT PRODUCT.

- 5.0 OTHER REQUIREMENTS FOR ELECTRICAL AND MECHANICAL SYSTEMS
- 5.1 DUE TO SITE CONSTRAINT, NO C/P POWER SUPPLY IS AVAILABLE TO THE DEVELOPMENT. ONE (1) NO. GENERATOR OF SUFFICIENT ELECTRICAL CAPACITY SHALL BE PROVIDED TO SUPPLY ALL POWER REQUIRED FOR THE BUILDING AND ONE (1) NO. EMERGENCY GENERATOR SHALL BE PROVIDED TO SUPPLY ESSENTIAL POWER SUPPLY FOR THE FIRE PROTECTION SYSTEMS, EMERGENCY LIGHTING, DIRECTIONAL AND EXIT SIGN.
- 5.2 TWO (2) HOURS BATTERY BACK-UP EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE ENTIRE BUILDING AND ALL EXIT ROUTES LEADING TO G/F CONFORMING TO BRITISH STANDARD BS5266: PART 1 & BS EN 60598-2-22 :2002.
- 5.3 SUFFICIENT DIRECTIONAL AND EXIT SIGNS WILL BE PROVIDED TO ENSURE THAT ALL EXIT ROUTES FROM ANY FLOOR WITHIN THE BUILDING ARE CLEARLY INDICATED AS REQUIRED BY THE CONFIGURATION OF STAIRCASES SERVING THE BUILDING.
- 5.4 ALL ELECTRICAL CIRCUITS SHALL BE PROTECTED BY MINIATURE CIRCUIT BREAKERS.
- 5.5 NO VENTILATION/ AIR CONDITIONING CONTROL SYSTEM TO A BUILDING WILL BE PROVIDED.

- 6.0 OTHER REQUIREMENTS
- 6.1 ANY INTENDED STORAGE OF USE OF DANGEROUS GOODS AS DEFINED IN CHAPTER 295 OF THE LAW OF HONG KONG SHOULD BE NOTED TO THE DIRECTOR OF THE FIRE SERVICES. THE VOLUME OF FUEL TANK ROOM WILL BE LESS THAN 44M3 AND THE VOLUME OF FUEL STORAGE WILL BE LESS THAN 2500LT.
- 6.2 VISUAL FIRE ALARM SHALL BE PROVIDED TO PUBLIC ACCESSIBLE AREAS, INCLUDING RECEPTION, TOILETS, 25M PISTOL ONLY, IN ACCORDANCE WITH BARRIER FREE ACCESS 2008.
- 6.3 NO AUDIO/ VISUAL ADVISORY SYSTEM WILL BE PROVIDED FOR ANY PART OR PART OF THE ENTIRE BUILDING.
- 6.4 FM200 MANUAL / AUTO EXTINGUISHER WILL BE PROVIDED FOR FUEL TANK ROOM
- 7.0 PORTABLE FIRE FIGHTING APPLIANCES
- 7.1 PORTABLE FIRE EXTINGUISHERS F.E. 4.5 kg CO2, 9 LITERS WATER, SAND BUCKETS TO BE PROVIDED AS INDICATED ON PLANS.



LOCATION PLAN

SCALE 1:25000

NOTES FOR E.P.D.

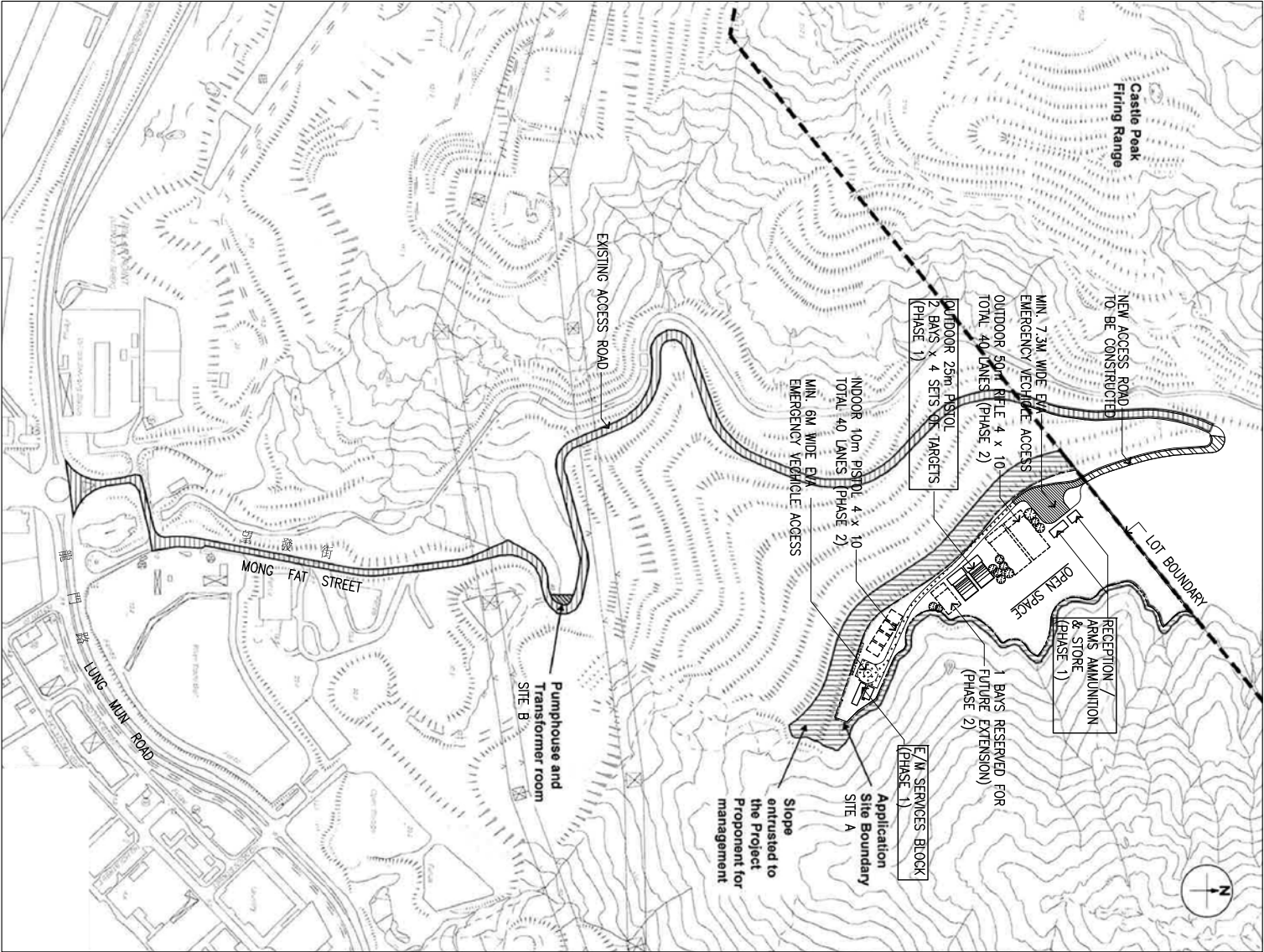
- 1.0 REQUIREMENT FOR LANDFILL GAS MIGRATION MITIGATIONS
- 1.1 THE FLOOR SLABS OF ALL BUILDINGS (EXCLUDING OUTDOOR SHOOTING RANGES AND ALL OTHERS OUTDOOR AREAS) WILL BE LINED WITH HOPE GEO-MEMBRANE WITH HYDRAULIC CONDUCTIVITY OF LESS THAN 1E-12 M/S AND WITH RAISED FLOOR DESIGN.
- 1.2 GIVEN UNEVEN GROUND LEVEL, THE RAISED FLOOR DESIGN SHOULD HAVE MINIMUM 100MM CLEAR HEIGHT.
- 1.3 MECHANICAL VENTILATION WILL BE PROVIDED FOR ARMS AMMUNITION & STORE, RECEPTION.
- 1.4 METHANE GAS DETECTORS WILL BE INSTALLED AT INDOOR SHOOTING RANGE, ARMS AMMUNITION & STORE, RECEPTION, E&M SERVICES BLOCK.

DOOR MARK

	1/2 HR FRP SELF-CLOSING DOOR		ACCESS DOOR TO BE LOOKED AT ALL TIME
	1/2 HR FRP SELF-CLOSING DOOR WITH WIRED GLASS UPPER PANEL		ACCESS PANEL W/ 1HR FRP
	1 HR FRP SELF-CLOSING DOOR		ALUM. S/C GLASS DOOR
	1 HR FRP SELF-CLOSING DOOR WITH WIRED GLASS UPPER PANEL		METAL DOOR
	2 HRS FRP SELF-CLOSING DOOR	NOTES : TEST CERTIFICATE OF DOORS IN ACCORDANCE WITH BS 476 PARTS 20 & 22 1987 TO BE SUBMITTED LATER.	

SYMBOLS & LEGENDS

	150H. R.C. CURB		FIRE HYDRANT
	380 x 380 FLUE APERTURE		4.5kg CO2 FIRE EXTINGUISHER
	CABLE DUCT		EXIT SIGN
	CAT LADDER W/ LOCKABLE		TACTILE WARNING STRIP
	FIRE SERVICE INLET		PLANTER
	HIGH LEVEL WINDOW		MECHANICAL VENTILATION AND ARTIFICIAL LIGHTING
	HOSE REEL		



FOR TENDERING  
ADVANCE WORKS

	MIN. 6m WIDE EMERGENCY VEHICLE ACCESS CONSTRUCTED WITH HARD PAVED TO WITHSTAND 30 TONNES LOADING
	NEW ACCESS ROAD TO BE CONSTRUCTED WITH THE CONG OF OWNER OR ADJACENT LOT
	EXISTING ACCESS ROAD

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Drawing Title  
BLOCK PLAN, NOTES, SYMBOL & LEGEND

Drawing No.	D1-01
Project Ref	Scale : A3
File Name : E :	Signature for Submission/Construction